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NOTICE OF ALLOWANCE AND FEE(S) DUE

55343

7590

12/29/2009

AT&T Legal Department - T&W Attn: Patent Docketing Room 2A-207 One AT&T Way Bedminster, NJ 07921 EXAMINER

PEREZ, ANGELICA

ART UNIT

PAPER NUMBER

2618

DATE MAILED: 12/29/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/900,773	07/06/2001	Steven Michael Bellovin	12177/60501	7692

TITLE OF INVENTION: ENHANCED COMMUNICATION SERVICE FOR PREDICTING AND HANDLING COMMUNICATION INTERRUPTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	03/29/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notification.	ed below or directed otl	ng the Patent, advance on herwise in Block 1, by (orders and notification of a a) specifying a new corres	maintenance fees w spondence address;	ill be ma and/or (b	iled to the current of indicating a separ	correspondence address as rate "FEE ADDRESS" for
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One AT&T Way Bedminster, NJ							(Depositor's name)
Dediffilister, NJ	0/921						(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORN	EY DOCKET NO.	CONFIRMATION NO.
09/900,773	07/06/2001	_	Steven Michael Bellovin		12	177/60501	7692
			FOR PREDICTING AND	_			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$ 0		\$1510	03/29/2010
EXAM		ART UNIT	CLASS-SUBCLASS	J			
	NGELICA	2618	455-423000				
CFR 1.363). Change of corresp Address form PTO/S. "Fee Address" ind	ence address or indicatio condence address (or Cha B/122) attached. lication (or "Fee Address D2 or more recent) attack	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assignee	T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assigne assignment. And STATE OR C	OUNTRY	Y)	ocument has been filed for
Please check the appropri	riate assignee category or	categories (will not be p	rinted on the patent):	Individual 🖵 Co	rporation	or other private gro	up entity 🔲 Government
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5. Change in Entity Sta	tue (from status indicata	d abova)	overpayment, to Depo	osit Account Numbe	r	(enclose an	extra copy of this form).
	ns SMALL ENTITY statu		☐ b. Applicant is no lon	ger claiming SMAL	L ENTIT	Y status. See 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other than to Office.	he applicant; a regis	stered atto	orney or agent; or the	e assignee or other party in
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This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DO	CFR 1.311. The informati 5 U.S.C. 122 and 37 CFR 2 USPTO. Time will vary rden, should be sent to the D NOT SEND FEES OR	on is required to obtain or in 1.14. This collection is esty depending upon the individe Chief Information Office COMPLETED FORMS TO	retain a benefit by the timated to take 12 n vidual case. Any coper, U.S. Patent and TOTHIS ADDRESS	ne publicy ninutes to mments o Trademark . SEND T	which is to file (and complete, including the amount of time k Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

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AT&T Legal Department - T&W			PEREZ, AI	NGELICA		
Attn: Patent Docketing			ART UNIT	PAPER NUMBER		
Room 2A-207 One AT&T Way Bedwinster, NJ 07921			2618			
			DATE MAILED: 12/29/2009			
Redminster NLU/9	971					

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 219 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 219 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	09/900,773	BELLOVIN, STEVEN MICHAEL	
Notice of Allowability	Examiner	Art Unit	_
	ANGELICA M. PEREZ	2618	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in the or other appropriate communication is substitution in the community of the comm	is application. If not included cation will be mailed in due course. THIS	•
1. This communication is responsive to <u>amendment filed 09/</u>	<u>/30/09</u> .		
2. X The allowed claim(s) is/are 1-14,16-20 and 28-38.			
3.	re been received. re been received in Application I bocuments have been received in a communication to file a ment of this application. The communication to file a ment of this application. The communication to file a ment of this application. The communication to file a ment of this application. The communication to file a ment of this application.	No In this national stage application from the reply complying with the requirements INER'S AMENDMENT or NOTICE OF reclaration is deficient.	
(b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the	drawings in the front (not the back) of	
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sum Paper No./Ma 7. ☐ Examiner's Ar	mal Patent Application mary (PTO-413), ail Date nendment/Comment atement of Reasons for Allowance	
/A. M. P./			
Examiner, Art Unit 2618			

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The changes made in relation to claims 1, 2, 5, 11, 12, 13, 14-15, 28 and 30 have been reviewed and accepted; therefore, rejection under 35 USC § 112, second paragraph, has been withdrawn.

The changes made in relation to claims 28-29 and 33 have been reviewed and accepted; therefore, rejection under 35 USC § 112, first paragraph, has been withdrawn.

Drawings

2. The drawings received on 02/20/02 are accepted.

Allowable Subject Matter

- 3. Claims 1-14, 16-20, 28-38 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art of record teaches of a method for processing a communication interruption between at least two communication devices comprising the steps of: consulting data, the data comprising a plurality of predetermined prediction points indicating a fixed structure capable of presenting an interference to a communication in progress, wherein a prediction point is separated from an interruption point by a first predetermined time or distance interval, and a second predetermined time or distance interval between the interruption point and a connectivity point defines a no-coverage zone, the communication being capable of being reestablished at or beyond the connectivity point outside the no-coverage zone, based on the consulting,

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predicting, during an established communication between the communication devices, that a connection to one of the communication devices will be interrupted at an interruption point and determining a no-coverage zone corresponding to the interruption point; and announcing, before the connection is interrupted, that the connection to the one communication device entering the no-coverage zone will be interrupted.

The prior art of record fails to teach where upon emerging from the nocoverage zone and unsuccessful reconnection attempts between communication devices, determining by the one communication device that entered the nocoverage zone a next communication operation between the communication devices based on pre-programmed, user instructions.

Regarding claim 28, the prior art of record teaches of an electronic device in a mobile communication device comprising logic to: predict, based on data stored within said electronic device, said data comprising a plurality of predetermined prediction points indicating a fixed structure capable of presenting an interference to a communication in progress, a communication drop-off for mobile communication devices in communication, wherein a prediction point is separated from an interruption point by a first predetermined time or distance interval, and a second predetermined time or distance interval between the interruption point and a connectivity point defines a no- coverage zone, the communication being capable of being re-established at or beyond the connectivity point outside the no-coverage zone, calculate a communication drop-off point based on a location of the electronic device with respect to a prediction point and an interruption point; before the drop-off point is reached, notify a user of at

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least one of the communication devices of the communication drop-off that the electronic device is entering a no-coverage zone based on the calculation.

The prior art of record fails to teach where upon emerging from the nocoverage zone and unsuccessful reconnection attempts between mobile
communication devices, determine a next communication operation between the
mobile communication devices based on pre-programmed user instructions.

Claims 2-14, 16-20, 33-38 and 29-32 depend on claims 1 and 28, respectively; therefore, they are rejected for the same reasons as set forth above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Angelica Perez whose telephone number is 571-272-7885. The examiner can normally be reached on 7:00 a.m. - 3:30 p.m., Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay A. Maung can be reached on (571) 272-7503. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and for After Final communications.

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Art Unit: 2618

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either the PAIR or Public PAIR. Status information for unpublished applications is available through the Private PAIR only. For more information about the pair system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). Information regarding Patent Application Information Retrieval (PAIR) system can be found at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2600's customer service number is 703-306-0377.

/P. M. A./

Examiner, Art Unit 2618

/Nay A. Maung/

Supervisory Patent Examiner, Art Unit 2618